J. A. BEAMISDERFER.

RAZOR SHARPENER.

APPLICATION FILED AUG. 1, 1911.

1,014,745. Patented Jan. 16, 1912.

3 SHEETS—SHEET 1.

Fig. 1.

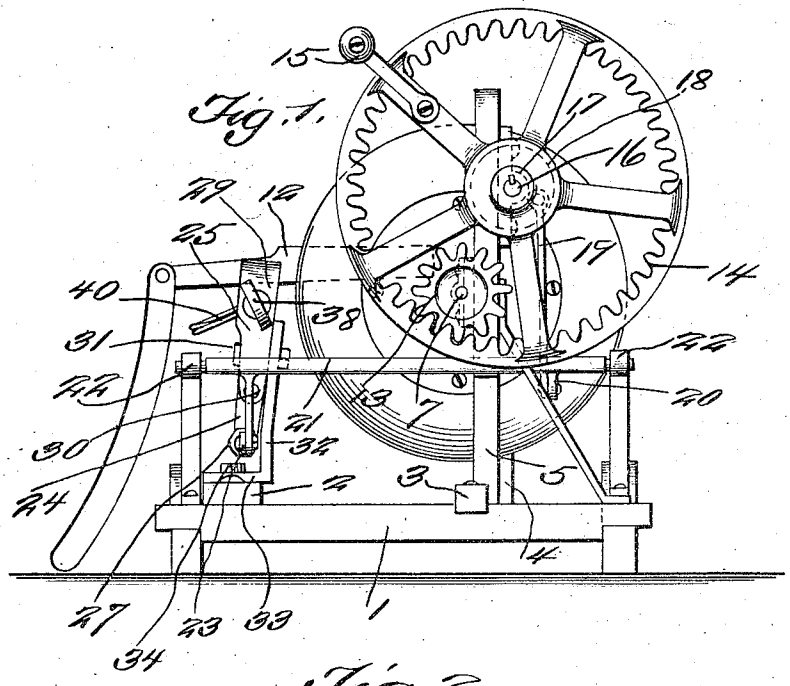
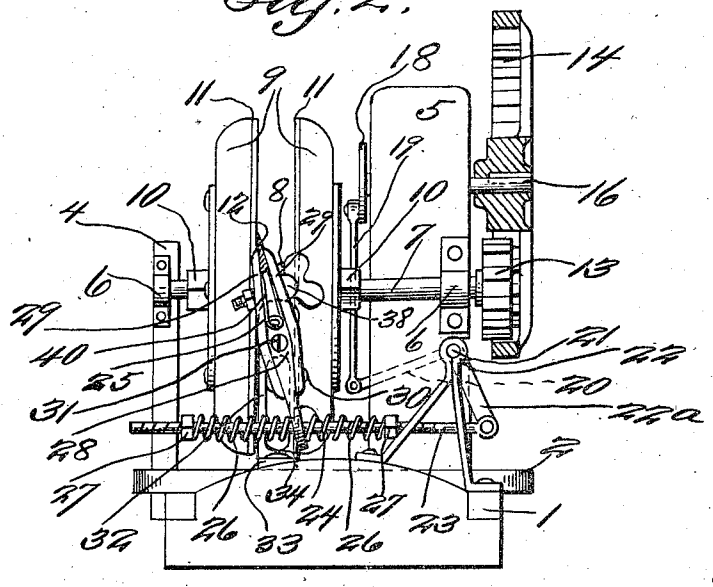


Fig. 2.



Witnesses.

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3 SHEETS—SHEET 2.

Fig. 3.

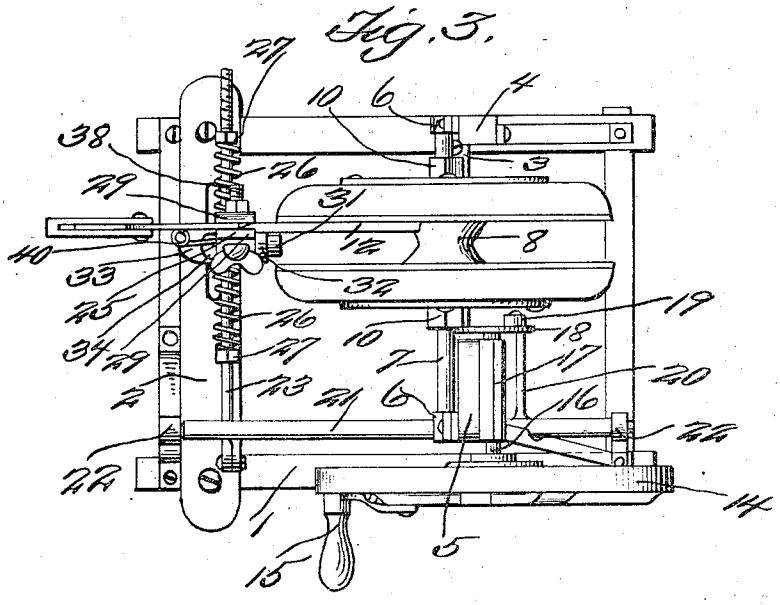
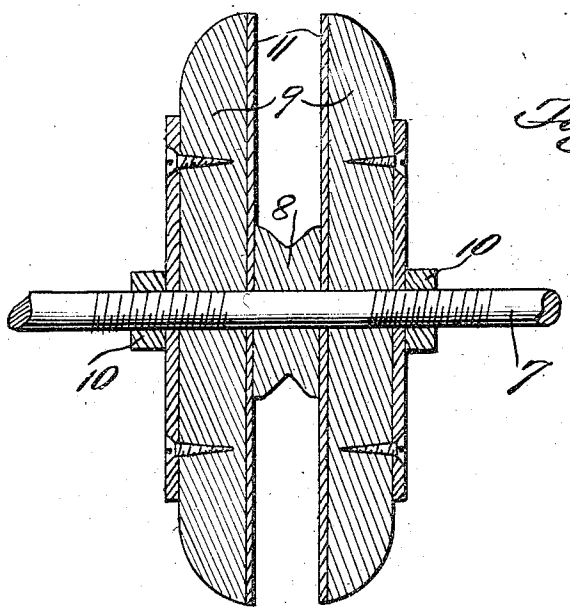


Fig. 7.



Witnesses

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3 SHEETS—SHEET 3.

Fig. 4.

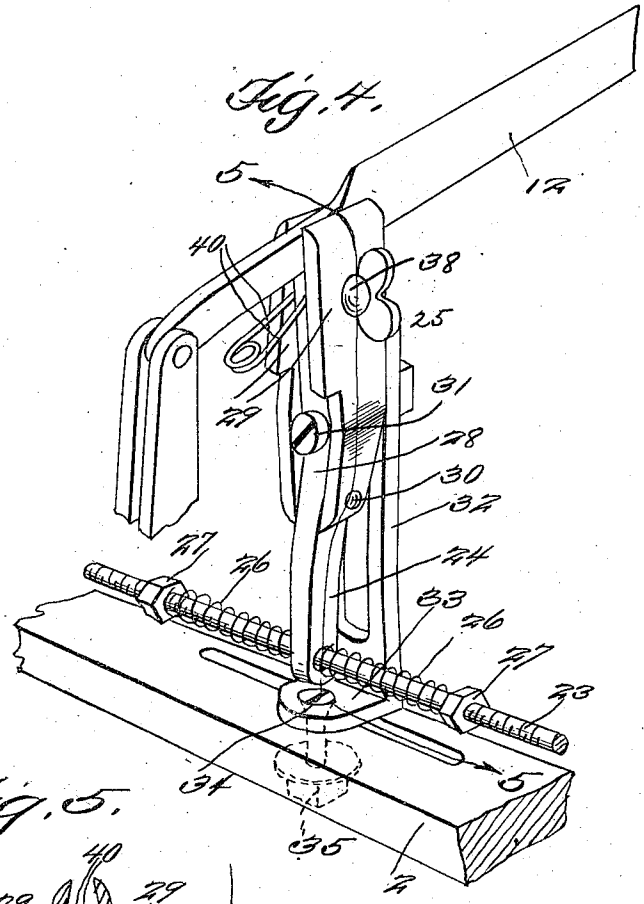


Fig. 5.

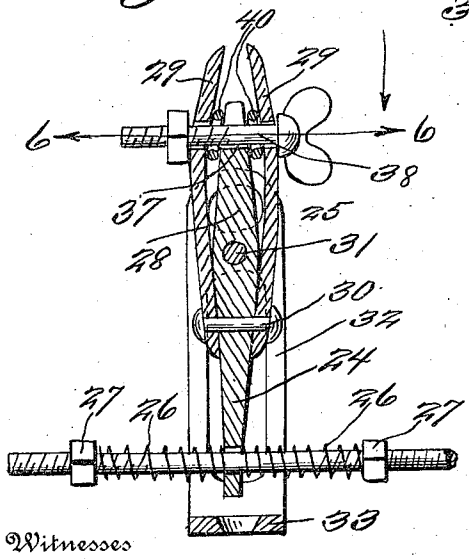
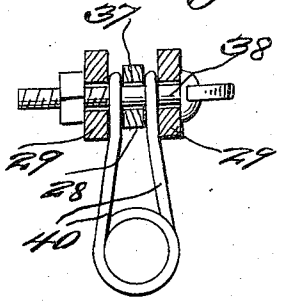


Fig. 6.



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH A. BEAMISDERFER, OF JONESTOWN, PENNSYLVANIA.

RAZOR-SHARPENER.

1,014,745. Specification of Letters Patent. Patented Jan. 16, 1912.

Application filed August 1, 1911. Serial No. 641,825.

To all whom it may concern:

Be it known that I, JOSEPH A. BEAMISDERFER, a citizen of the United States, residing at Jonestown, in the county of Lebanon and State of Pennsylvania, have invented a new and useful Razor-Sharpener; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a new and useful razor sharpening or honing machine.

The invention comprises features and combinations of parts, as hereinafter set forth, shown in the drawings, and claimed.

In the drawings:—Figure 1 is a view in side elevation of a razor sharpening or honing machine constructed in accordance with the invention. Fig. 2 is a view in front elevation, clearly disclosing the razor holder. Fig. 3 is a plan view. Fig. 4 is a detail view in perspective of the razor holder, including the means whereby the razor is held yieldably in contact with one or the other honing disk. Fig. 5 is a sectional view on line 5—5 of Fig. 4. Fig. 6 is a detail sectional view on line 6—6 of Fig. 5. Fig. 7 is a sectional view through the sharpening or honing disks, showing the shaft on which they are mounted.

Referring to the drawings 1 designates a base frame having two transversely disposed beams 2 and 3. Rising from the beam 3 are the standards 4 and 5 in bearings 6 of which a shaft 7 is journaled. Arranged on the shaft is a hub member 8, which constitutes means for holding the honing or sharpening disks 9 equally spaced apart. Nuts 10 are threaded on the shaft 7, and in contact with the outer faces of the metal honing disks, for clamping the disks against the hub member. The adjacent faces of the disks 9 are provided with areas of honing material or leather or felt 11, so that each side of the razor blade 12 may be sharpened or honed.

On one end of the shaft 7 a pinion 13 is mounted which meshes with the gear 14 (which is provided with a handle 15) of the shaft 16. The shaft 16 is mounted in a bearing 17 of the standard 5. Upon one end of the shaft 16 a disk 18 is mounted, to which a rod 19 is eccentrically connected. The rod 19 is in turn pivoted to an arm 20 of a rock shaft 21, which is mounted in bearings 22 rising from the base frame of the machine. The rock shaft 21 at the end opposite the arm 20 is provided with a second arm 22^a, which is disposed at right angles to the first arm. To the free end of the arm 22^a a rod 23 is pivotally connected. The rod 23 passes through an opening of the shank 24 of the razor holder 25. Disposed on each side of the shank 24, and surrounding the rod 23 is a coil spring 26. To regulate the tension of the springs nuts 27 are threaded on the rod 23. By turning the nuts toward the shank the tension of the springs is increased, which increases the frictional contact between the razor blade and the honing surfaces.

The razor holder 25 consists of the body 28 (which forms a part of the shank) and the clamping jaws 29, which are pivoted as at 30 to the shank. The body 28 is pivoted upon a bolt 31, which is carried by the standard 32. The base of the standard 32 is provided with a foot 33, through which a bolt 34 extends, which bolt penetrates an elongated slot of the beam 2. Threaded on the bolt 34 is a nut 35, whereby the foot and its standard may be adjusted longitudinally of the beam 2, so as to dispose the holder centrally between the sharpening or honing disks. The upper end of the body 28 is bifurcated as shown at 37, and extending through the bifurcation is a screw bolt 38, which also penetrates the clamping jaws 29, there being a nut threaded on the bolt 38, whereby the jaws may be brought together, or loosely separated.

In honing or sharpening razors and the like, the razor blade is clamped between the jaws 29, in the manner shown in the drawings, after which the gear 14 is rotated, which in turn imparts motion to the pinion 13, and thence to the shaft 7, by virtue of which the sharpening or honing disks are revolved. As the shaft 7 is rotated, the shaft 16, with which the gear 14 rotates, is also rotated, which in turn imparts a rocking motion to the rock shaft, through the medium of the rod 19 and the disk 18. By rocking the rock shaft the holder is oscillated in one direction or the other, so as to throw first one and then the other of the sides

of the razor blades yieldably in contact with first one and then the other of the sharpening or honing surfaces of the disk.

When the nut on the bolt 38 is loosened the jaws 29 are separated by the spring 40.

The invention having been set forth, what is claimed as new and useful is:—

In a razor honing machine, a base having supporting standards thereon, a shaft journaled therein, a pair of parallel spaced apart honing disks on the shaft, a standard, means for adjusting the last standard transversely of the disks, a razor holder pivoted to the last standard, means for rotating the disks, a rock shaft having connections with the disk rotating means, a rod extending slidably to the lower end of the razor holder and having connections with the rock shaft, yieldable means on each side of the lower end of the holder, and means threaded on the rod for adjusting the tension of the yielding means, the yieldable means constituting means for throwing the razor yieldably in contact with first one and then the other of the honing disks.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH A. BEAMISDERFER.

Witnesses:

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FRANK B. HUGENDUBLER.